



Shri Swami Vivekanand Shikshan Sanstha  
**Vivekanand College, Kolhapur (Autonomous)**  
Department of Computer Science

**Curriculum relevance: Course contents with focus on Employability / Entrepreneurship /Skill development (UG) 2018-19 to 2023-24**

Sr. No.	Course Code	Course / SECs Titles	Year of Introduction	Employability	Entrepreneurship	Skill Development
1.	DSC-1006A	Problem Solving using Computers & Database Management System	2018-19	Data models Entity Relationship Model		Introduction to Programming Languages Building Blocks of Program Introduction to Python Programming MySQL
2.	DSC-1006B	Problem Solving using Computers & Database Management System	2018-19	Database connectivity in Python MySQL Joining Tables		Python File Input-Output GUI Programming in Python (using Tkinter/wxPython/Qt) Relational data model Functional Dependencies and Normalization
3.	DSC-1006C	Operating System and Object-Oriented Programming	2019-20	Process Management CPU Scheduling	Introduction to Linux	Introduction to Object Oriented Programming Classes and Objects Inheritance and Polymorphism
4.	SEC-1006A	Introduction to HTML and CSS	2019-20	HTML Basics, HTML Fonts, Color, Tables, Lists HTML Forms, Input Tag, Layout, Head and Meta element		CSS
5.	DSC-1006D	Operating System and Data Structures	2019-20		Memory Management Storage Management Linux Scripting	Abstract Data Type Linked Structure Stacks Queues
6.	SEC-1006B	Introduction to JavaScript	2019-20	JavaScript within HTML		Event handing, Document Object and Window Object



7.	DSC-1006E1	Section-I Computer Network Section-II Software Engineering	2020-21	Network Classification, Network Topologies, Network Protocol Software Engineering Concepts	TCP/IP protocol suite ISO/OSI Model Introduction to Linux Server Administration Software Project Management Quality Management Risk Management	Software Testing
8.	DSC-1006E2	Section-I Internet Technologies-I Section-II Introduction to Java	2020-21	Introduction to Flask Jinja Templating Exception Handling, GUI components using AWT and Swing and Applets	Java IDE – Eclipse/NetBeans	Creating and Rendering Forms Object, Classes and Inheritance in Java
9.	SEC-1006C	PHP Programming	2020-21	Important tools and software requirements (like Web Server, Database, Editors etc.), PHP with other technologies		String and Regular Expression
10.	DSC-1006F1	Section-I Advanced Computer Network Section-II Object Oriented Software Engineering	2020-21	TCP/IP for System Administrators Internet Services Intranet Services	Unified Process Model Mapping Object Model to Database Schema	Object Oriented Analysis Object Oriented Testing
11.	DSC-1006F2	Section-I Internet Technologies-II Section-II Data Science using Python	2020-21	SQL Databases, NoSQL Databases User Authentication Exploratory Data Analysis (EDA): The Data Science Process, Basic tools (plots, graphs and summary statistics) of EDA	Big Data and Data Science hype	Application Deployment Machine Learning
12.	SEC-1006D	Advanced PHP Programming	2020-21	Classes and Objects Working with Forms Using DBM, MySQL Databases	Web Development Frameworks: Laravel, Codeigniter, Joomla	Working with Multipage Forms
13.	DSC-1006A	Problem Solving using Computers & Database Management System	2021-22	Data models Entity Relationship Model		Introduction to Programming Languages Building Blocks of Program Introduction to Python Programming MySQL



14.	DSC-1006B	Problem Solving using Computers & Database Management System	2021-22	Database connectivity in Python MySQL Joining Tables		Python File Input-Output GUI Programming in Python (using Tkinter/wxPython/Qt) Relational data model Functional Dependencies and Normalization
15.	DSC-1006C	Operating System and Object-Oriented Programming	2022-23	Process Management CPU Scheduling	Introduction to Linux	Introduction to Object Oriented Programming Classes and Objects Inheritance and Polymorphism
16.	SEC-1006A	Introduction to HTML and CSS	2022-23	HTML Basics, HTML Fonts, Color, Tables, Lists HTML Forms, Input Tag, Layout, Head and Meta element		CSS
17.	DSC-1006D	Operating System and Data Structures	2022-23		Memory Management Storage Management Linux Scripting	Abstract Data Type Linked Structure Stacks Queues
18.	SEC-1006B	Introduction to JavaScript	2022-23	JavaScript within HTML		Event handling, Document Object and Window Object
19.	DSC-1006E1	Computer Network	2023-24	Network Classification, Network Topologies, Network Protocol	TCP/IP protocol suite ISO/OSI Model	Introduction to Linux Server Administration
20.	DSC-1006E2	Software Engineering	2023-24	Software Engineering Concepts	Software Project Management Quality Management Risk Management	Software Testing
21.	DSC-1006E3	Internet Technologies-I	2023-24	Introduction to Flask Jinja Templating		Creating and Rendering Forms
22.	DSC-1006E4	Introduction to Java	2023-24	Exception Handling, GUI components using AWT and Swing and Applets	Java IDE – Eclipse/NetBeans	Object, Classes and Inheritance in Java



23.	SEC-1006C	PHP Programming	2023-24	Important tools and software requirements (like Web Server, Database, Editors etc.), PHP with other technologies		String and Regular Expression
24.	DSC-1006F1	Advanced Computer Network	2023-24	TCP/IP for System Administrators Internet Services Intranet Services		
25.	DSC-1006F2	Object Oriented Software Engineering	2023-24		Unified Process Model Mapping Object Model to Database Schema	Object Oriented Analysis Object Oriented Testing
26.	DSC-1006F3	Internet Technologies-II	2023-24	SQL Databases, NoSQL Databases User Authentication		Application Deployment
27.	DSC-1006F4	Data Science using Python	2023-24	Exploratory Data Analysis (EDA): The Data Science Process, Basic tools (plots, graphs and summary statistics) of EDA	Big Data and Data Science hype	Machine Learning
28.	SEC-1006D	Advanced PHP Programming	2023-24	Classes and Objects Working with Forms Using DBM, MySQL Databases	Web Development Frameworks: Laravel, Codeigniter, Joomla	Working with Multipage Forms
29.	DSC03CSC11	Problem Solving using Computers-I	2023-24	Programming languages, their classification and characteristics		Python Programming Writing and executing simple program
30.	DSC03CSC12	Introduction to DBMS-I	2023-24	Data models Entity Relationship Model		MySQL DDL Statements DML Statements DCL Statements
31.	MIN03CSC11	Problem Solving using Computers-I	2023-24	Programming languages, their classification and characteristics		Python Programming Writing and executing simple program



32.	MIN03CSC12	Introduction to DBMS-I	2023-24	Data models Entity Relationship Model		MySQL DDL Statements DML Statements DCL Statements
33.	OEC03CSC11	Fundamentals of Computer-I	2023-24	Hardware components, Software components	Computer Networking, Basics of computer networks	Problem Solving and Logic Building Analyzing and breaking down problems
34.	OEC03CSC12	Introduction to Web-I	2023-24	HTML and CSS	Web Interfaces, Practical Application and Projects	JavaScript
35.	IKS03GEC11	Indian Knowledge System	2023-24			Maths in Ancient and Medieval India
36.	DSC03CSC21	Problem Solving using Computers-II	2023-24	List and Tuples Dictionaries, Functions and Modules		File Handling
37.	DSC03CSC22	Introduction to DBMS-II	2023-24	Relational data model ER to The Relational Model		MySQL
38.	MIN03CSC21	Problem Solving using Computers-II	2023-24	List and Tuples Dictionaries, Functions and Modules		File Handling
39.	MIN03CSC22	Introduction to DBMS-II	2023-24	Relational data model ER to The Relational Model		MySQL
40.	OEL03CSC21	Fundamentals of Computer-II	2023-24	Data Structures and Algorithms Operating Systems and Software Engineering	Computer Organization and Architecture	
41.	OEL03CSC22	Introduction to Web-II	2023-24	Advanced JavaScript Proficiency		Front-End Frameworks Understanding Web Development Tools and Practices
42.	VSC03CSC21	HTML and CSS	2023-24	Implementing HTTPS and SSL/TLS		React, Angular, or Vue



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HEAD

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